



# Kirby Morgan Dive Systems, Inc.®

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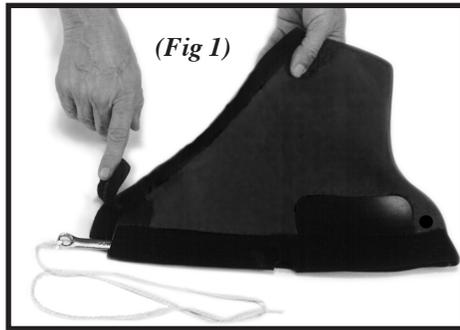
## 510-643 XL DRAWSTRING NECK DAM INSTALLATION PROCEDURES

Tools Required:

7/16" Wrench, Scissors

**READ INSTRUCTIONS**

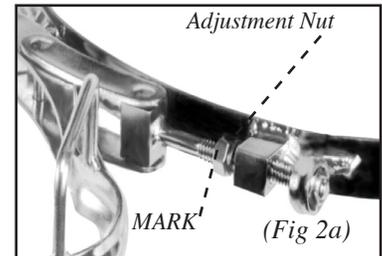
**COMPLETELY THROUGH BEFORE ATTEMPTING ASSEMBLY.**



(Fig 1)

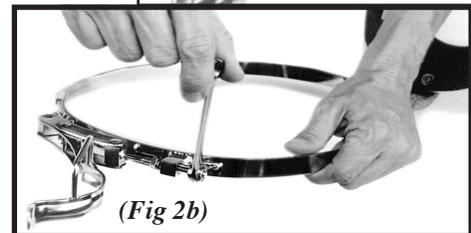
### Step 1:

Thread the supplied drawstring through the new Neck Dam Rim. It makes it easier to thread if the Drawstring end is tied to a small box end wrench. (Fig 1)



(Fig 2a)

**Step 2:** Remove the used Neck Dam from the Neck Clamp by cutting it off the Neck Clamp Ass'y. With a pen or marker, mark the location of the Neck Clamp Adjustment Nut on the



(Fig 2b)

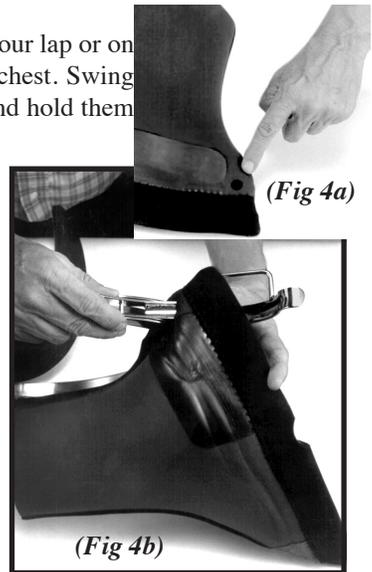
Adjustment Stud. (Fig 2a) Remove the Locknut from the Adjustment Stud of the Neck Clamp. (Fig 2b) Pull the Adjustment Stud free of the Adjustment Block of the Neck Clamp. Place the Locknut and Washer aside for later use.



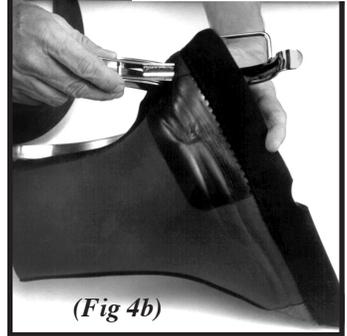
(Fig 3)

**Step 3:** Place the Yoke and Neck Clamp assembly in your lap or on a table upside down. Swing the Yoke up against your chest. Swing the Adjustment Stud against the Neck Clamp Handle and hold them together in your right hand. (Fig 3)

**Step 4:** Do this next step carefully. Locate the large hole in the Neck Dam, found between the front seam and the large Reinforcing Patch. (Fig 4a) Holding the Adjustment Stud and Handle together, feed them through the hole; starting from the same side that locates the Reinforcing Patch. Although the hole will stretch to accommodate passage of the Stud & Handle, reasonable care should be taken to prevent tearing of the material. (Fig 4b)



(Fig 4a)



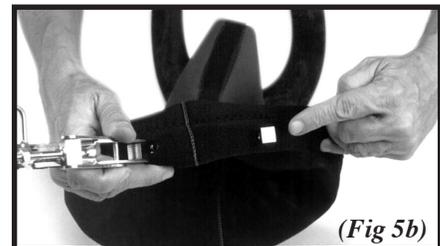
(Fig 4b)



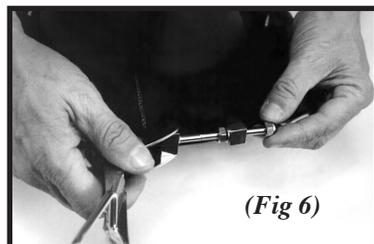
(Fig 5a)

**Step 5:** Once the Adj. Stud and Handle are completely through the Neck Dam hole, push the Neck Chute part of the Neck Dam up through the Neck Clamp. (Fig 5a) The Neck Clamp Adj. Block feeds into the small Neck Dam hole. (Fig 5b)

**Step 6:** Make sure the Adjustment Nut is on its mark, then place the Lock washer onto the Neck Clamp Adjustment Stud and insert through the Adjustment Block. Thread on the Locknut (Fig 6) and tighten until **snug**. NOTE: Replace the Locknut (DSI part #530-320) if locking ability has lessened due to wear.



(Fig 5b)



(Fig 6)

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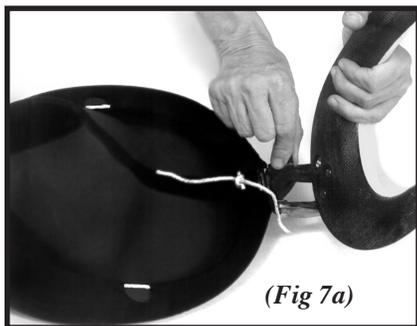
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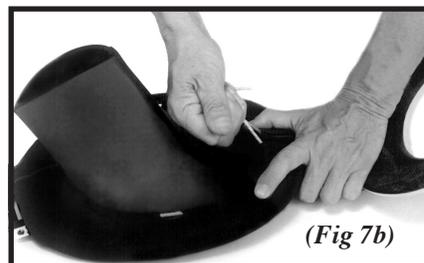


**Step 7:** Feed the rear Neck Dam Tab through the space between the Neck Clamp Hinge and the Yoke Hinge shaft. (Fig 7a) You may have to insert a cord through the Tab to pull it through. Continue to feed the rim of the Neck Dam onto the Neck Clamp, pulling on the Drawstring ends until the Neck Dam Rim completely covers the Neck Clamp. (Fig.7b) Feed the drawstring through the rear Neck Dam Tab and pull snug. **Do not overtighten!** Tie a series of square knots (at least three 3) with the Drawstring ends. (Fig 7c) and tuck knots into Neck Dam Rim.

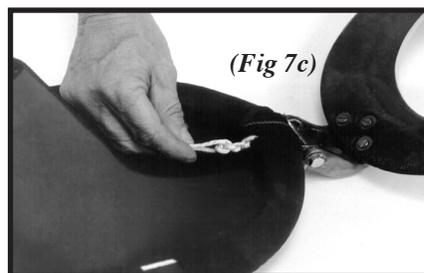


(Fig 7a)

**Step 8:** The Neck Dam Assembly is retained on the Helmet at three (3) locations; (Fig 8) the Rear Alignment Sleeve and two Helmet "front ears". The Rear Hinge Tab straddles the Rear Alignment Sleeve, mounted on the Rear Weight, as the Neck Clamp & Dam assembly is pushed over and past the Helmet ears. The Neck Clamp must be open enough to clear the Helmet ears. The Neck Clamp must travel beyond the thickness of the Helmet ears before clamping around the Helmet



(Fig 7b)



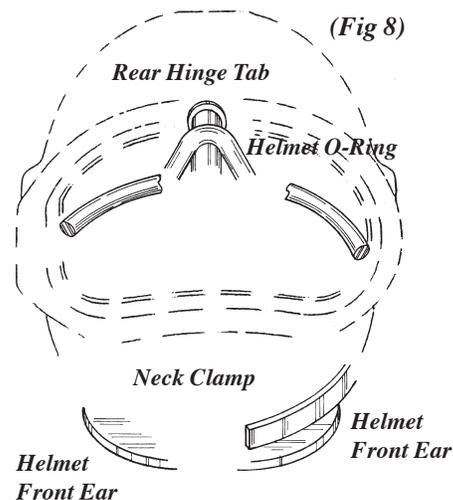
(Fig 7c)

sealing against the O-Ring Seal. The Neck Clamp should be adjusted so that the Neck Dam seals against the O-Ring Seal with **NO VISIBLE GAP** between the Neck Dam and the Helmet after clamping. If time permits, clamp the Neck Dam Ass'y. to the Helmet and let set for a 24 hour period; afterwards, remove the assembly, put it back on and check the clamping adjustment. If the Helmet is to be used immediately, the clamping and sealing action **MUST** be checked for readjustment after 24 hours. This adjustment should be checked prior to each dive.

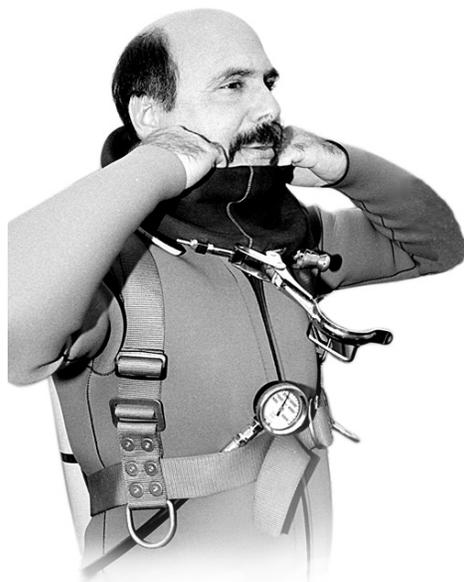
**Step 9:** Now try the Neck Clamp & Neck Dam on for comfort. If the Neck Dam has been mounted correctly the blue side will be against your neck. Slide the Yoke onto the neck from behind; spread the opening of the Neck Dam and pull it down over the head. The Neck Dam should be moderately easy to pull over the head and fit snug enough to prevent leaking, but not so tight that it limits or restricts circulation. If the Neck Dam is too tight on the neck or too hard to get over the head, the Neck Dam **MUST BE TRIMMED**. Trim 1/4 inch at a time (Fig 9a & 9b) until the proper fit is attained.

**Do not trim more than 1/4 inch at a time.**

Do not use a loose fitting Neck Dam. It may allow leakage and possible flooding of the helmet. If the helmet is to be used by more than one diver, we recommend that each diver have a Yoke / Neck Dam assembly that fits them. Each diver must check the fit of the Neck Dam prior to each dive.



(Fig 8)



(Fig 9a)

(Fig 9b)